

## Claims

[0069] What is claimed is:

- 1           1. A multi-projector display system for displaying an image including at  
2    least one window, comprising:  
3           a window projector, for displaying, at a display location, a portion of the  
4           image corresponding to a movable window;  
5           a workspace projector, for displaying the remainder of the image; and  
6           a control mechanism, coupled to the window projector, for changing at  
7           least one of the display location and the size of the window por-  
8           tion of the image.
- 1           2. The display system of claim 1, wherein the control mechanism changes  
2    the at least one of the display location and the size of the window portion of the  
3    image in response to a user command.
- 1           3. The display system of claim 1, wherein the control mechanism changes  
2    the display location of the window portion of the image in response to a user  
3    command for moving the window.

1           4. The display system of claim 1, wherein the control mechanism changes  
2 the display location of the window portion of the image in response to activation  
3 of the window.

1           5. The display system of claim 1, wherein:  
2 the window projector displays the window portion of the image at a first  
3 level of resolution; and  
4 the workspace projector displays the remainder of the image at a second  
5 level of resolution.

1           6. The display system of claim 5, wherein the first level of resolution is  
2 greater than the second level of resolution.

1           7. The display system of claim 1, wherein:  
2 the window projector displays the window portion of the image in a first  
3 visual format; and  
4 the workspace projector displays the remainder of the image in a second  
5 visual format;  
6 wherein the first visual format is distinct from the second visual format.

1           8. The display system of claim 7, wherein the first visual format is color  
2   and the second visual format is monochrome.

1           9. The display system of claim 1, wherein the window projector displays a  
2   motion picture in the window portion of the image.

1           10. The display system of claim 1, wherein the window projector and the  
2   workspace projector are coupled to a common image source.

1           11. The display system of claim 1, wherein the window projector is cou-  
2   pled to a first image source, and the workspace projector is coupled to a second  
3   image source.

1           12. The display system of claim 1, wherein the image includes a plurality  
2   of windows, one of the windows currently having focus, and wherein the win-  
3   dow projector displays the portion of the image corresponding to the window  
4   having focus.

1           13. The display system of claim 12, wherein, in response to a user com-  
2   mand changing focus to a second one of the windows:

3 the window projector displays, at a display location for the second win-  
4 dow, a portion of the image corresponding to the second win-  
5 dow; and  
6 the workspace projector displays the remainder of the image.

1 14. The display system of claim 1, wherein the workspace projector dis-  
2 plays the remainder of the image while leaving blank an area of the image corre-  
3 sponding to the display location of the window.

1 15. The display system of claim 14, wherein, the workspace projector per-  
2 forms at least one of moving and resizing the blank area of the image so as to  
3 correspond to the changed at least one of the display location and size of the win-  
4 dow.

1 16. The display system of claim 1, wherein the control mechanism  
2 changes the display location of the window portion of the image by repositioning  
3 the window projector.

1 17. The display system of claim 1, further comprising a mirror for direct-  
2 ing the output of the window projector to the display location, and wherein the  
3 control mechanism changes the display location of the window portion of the  
4 image by repositioning the mirror.

1           18. The display system of claim 1, wherein the control mechanism  
2 changes the size of the window portion of the image in response to a user com-  
3 mand for resizing the window.

1           19. The display system of claim 1, wherein the control mechanism com-  
2 prises:  
3           a pan/tilt control mechanism; and  
4           a zoom control mechanism.

1           20. A multi-projector display system for displaying an image including at  
2 least two windows, comprising:  
3           a plurality of window projectors, each for displaying, at a display location,  
4           a portion of the image corresponding to a window;  
5           a workspace projector, for displaying the remainder of the image; and  
6           at least one control mechanism, coupled to the window projectors, for  
7           changing at least one of the display locations and the sizes of the  
8           window portions of the image.

1           21. The display system of claim 20, wherein the at least one control  
2 mechanism changes the at least one of the display locations and the sizes of the  
3 window portions of the image in response to user commands.

1           22. A multi-projector display system for displaying an image including at  
2   least one window, comprising:  
3           a window projector, for displaying, at a display location, a portion of the  
4                   image corresponding to a window;  
5           a plurality of workspace projectors, for collectively displaying the re-  
6                   mainder of the image; and  
7           at least one control mechanism, coupled to the window projector, for  
8                   changing at least one of the display location and the size of the  
9                   window portion of the image.

1           23. The display system of claim 22, wherein the at least one control  
2   mechanism changes the at least one of the display location and the size of the  
3   window portion of the image in response to a user command.

1           24. The display system of claim 22, wherein the window projector dis-  
2   plays the portion of the image corresponding to a window without any visible  
3   seams.

1           25. A multi-projector display system for displaying an image including at  
2   least one window, comprising:

3 a plurality of window projectors, each for displaying, at a display location,  
4 a portion of the image corresponding to a window;  
5 a plurality of workspace projectors, for collectively displaying the re-  
6 mainder of the image; and  
7 at least one control mechanism, coupled to the window projectors, for  
8 changing at least one of the display locations and the sizes of the  
9 window portions of the image.

1 26. The display system of claim 25, wherein the at least one control  
2 mechanism changes the at least one of the display locations and the sizes of the  
3 window portions of the image in response to user commands.

1 27. A display system for displaying an image including at least one win-  
2 dow, comprising:  
3 a display device, for displaying a portion of the image omitting an area  
4 corresponding to a window;  
5 a window projector, for projecting onto the display device, at a display lo-  
6 cation corresponding to the area omitted by the display device,  
7 the portion of the image corresponding to the area omitted by  
8 the display device;

9 a mechanism, coupled to the window projector, for changing at least one  
10 of the display location and the size of the display location of the  
11 window portion of the image.

1 28. The display system of claim 27, wherein the control mechanism  
2 changes the at least one of the display location and the size of the window por-  
3 tion of the image in response to a user command.

1 29. A multi-projector display system for displaying an image, comprising:  
2 at least one regional image source, each for providing a portion of the im-  
3 age corresponding to a display region;  
4 a workspace image source, for providing the remainder of the image;  
5 at least one regional projector, each coupled to a regional image source,  
6 each for displaying the provided portion of the image at the  
7 display region;  
8 a workspace projector, coupled to the workspace image source, for  
9 displaying the remainder of the image; and  
10 at least one control mechanism, coupled to the at least one regional projec-  
11 tor, for changing the location of the at least one display region.

1 30. A multi-projector display method for displaying an image including  
2 at least one window, comprising:

3 displaying, by a window projector, at a display location, a portion of the  
4 image corresponding to a window;  
5 displaying, by a workspace projector, the remainder of the image; and  
6 changing at least one of the display location and the size of the display  
7 location of the window portion of the image.

1 31. The display method of claim 30, wherein changing the at least one of  
2 the display location and the size comprises changing the at least one of the dis-  
3 play location and the size in response to a user command.

1 32. The display method of claim 30, wherein changing the at least one of  
2 the display location and the size comprises changing the display location in re-  
3 sponse to a user command for moving the window.

1 33. The display method of claim 30, wherein changing the at least one of  
2 the display location and the size comprises changing the display location in re-  
3 sponse to activation of the window.

1 34. The display method of claim 30, wherein:  
2 displaying the window portion of the image comprises displaying the  
3 window portion of the image at a first level of resolution; and

4 displaying the remainder of the image comprises displaying the remain-  
5 der of the image at a second level of resolution.

1 35. The display method of claim 34, wherein the first level of resolution is  
2 greater than the second level of resolution.

1 36. The display method of claim 30, wherein:  
2 displaying the window portion of the image comprises displaying the  
3 window portion of the image in a first visual format; and  
4 displaying the remainder of the image comprises displaying the remain-  
5 der of the image in a second visual format;  
6 wherein the first visual format is distinct from the second visual format.

1 37. The display method of claim 36, wherein the first visual format is  
2 color and the second visual format is monochrome.

1 38. The display method of claim 30, wherein displaying a portion of the  
2 image corresponding to a movable window comprises displaying a motion pic-  
3 ture in the window portion of the image.

1 39. The display method of claim 30, wherein the image includes a plural-  
2 ity of windows, one of the windows currently having focus, and wherein dis-

3 playing a portion of the image corresponding to a window comprises displaying  
4 the portion of the image corresponding to the window having focus.

1 40. The display method of claim 39, further comprising, in response to a  
2 user command changing focus to a second one of the windows:

3 displaying, by the window projector, at a display location for the second  
4 window, a portion of the image corresponding to the second  
5 window; and

6 displaying, by the workspace projector, the remainder of the image.

1 41. The display method of claim 30, wherein displaying the remainder of  
2 the image comprises leaving blank an area of the image corresponding to the  
3 display location of the window.

1 42. The display method of claim 41, further comprising, in response to the  
2 user command for moving the window, moving the blank area of the image so as  
3 to correspond to the changed display location of the window.

1 43. The display method of claim 30, wherein changing the display loca-  
2 tion of the window portion of the image comprises repositioning the window  
3 projector.

1           44. The display method of claim 30, wherein changing the display loca-  
2   tion of the window portion of the image comprises repositioning a mirror.

1           45. The display method of claim 30, further comprising changing the size  
2   of the window portion of the image in response to a user command for resizing  
3   the window.